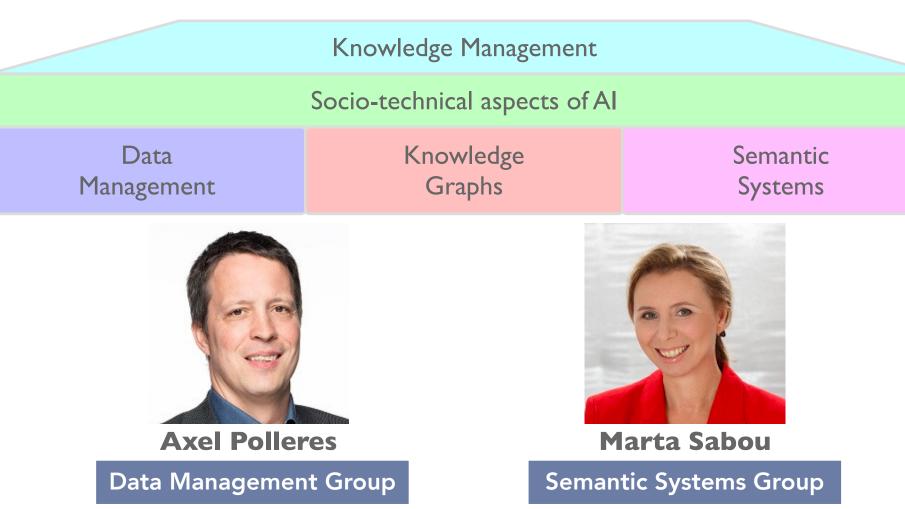
Institute for Data, Process, and Knowledge Management (DPKM)



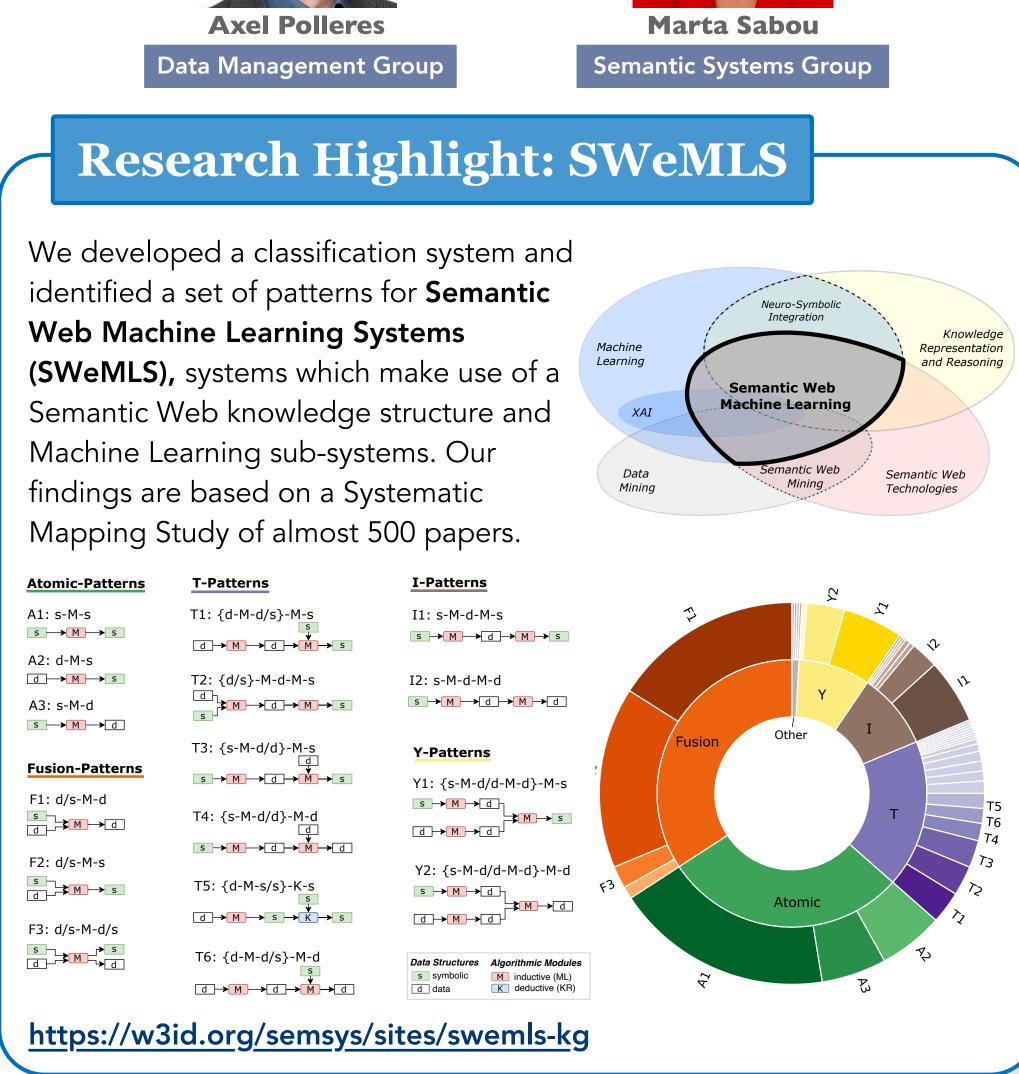


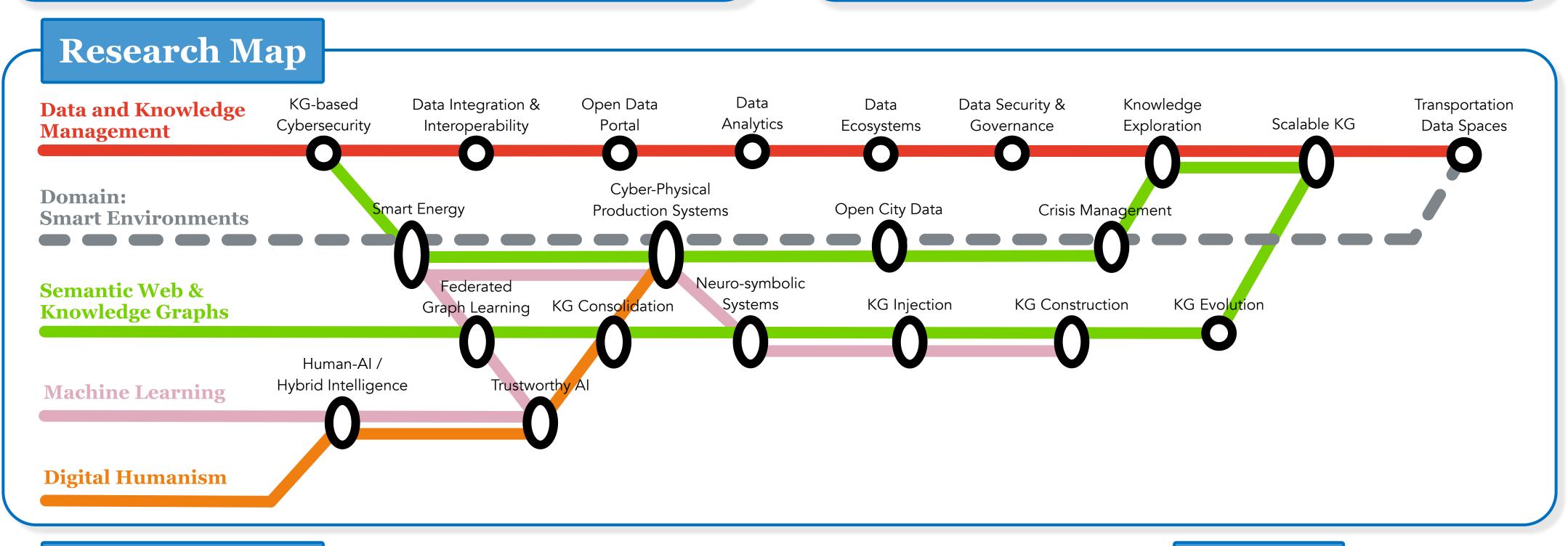
Vision

The Institute for **Data**, **Process and Knowledge Management** is dedicated to pioneering research at the intersections of *data management and integration*, the semantic web, and artificial intelligence to tackle intricate challenges within the business and knowledge management domains.



Project Highlight: CRISP The Crisis Response and Intervention Supported by Semantic Data Pooling (CRISP) Project represents a datadriven approach to Crisis Response * • 4 and Intervention. It considers both the 9 short-term management of disasters as 数 茶菜 well as long-term economic impact assessments, at fine-grained regional Cell Data including weather and temporal granularity. Basement Flooding Street Flooding Mudslide Snow-induced Black Ice Department Precipitation Fallen Tree Wind/Storm Army Private Person Rainfall induced Flood Helicopter





Other Projects

https://www.crisp-project.org

FFG SENSE project aims to advance and strengthen the scientific and technology level of explainable Cyberphysical Systems (ExpCPS) through: (i) the extension of standard Digital Twin architectures; (ii) novel ExpCPS methods based on semantic technologies lead to semantics-based explainability systems (i.e., SENSE systems); (iii) personalized and interactive user interfaces.

https://sense-project.net

Horizon Europe PERKS project supports the holistic governance of industrial Procedural Knowledge (PK) in its entire life cycle, from elicitation to management and from access to exploitation. PERKS bases its solutions on leading-edge AI, data technologies and people, by advancing and integrating existing methodologies and tools in terms of readiness, flexibility

https://semantic-systems.org/perks

and user acceptance.

H2020 TEAMING.AI project aims to make a breakthrough in smart manufacturing by introducing greater customisation and personalisation of products and services in AI technologies. Through a new human and AI teaming framework manufacturing processes will be optimised: the greatest strengths of both these elements can be maximised while safety and ethical compliance guidelines are examined & maintained. https://www.teamingai-project.eu/

FWF SEPSES (Semantic Processing of Security Event Streams) project aims to tackle these challenges by applying an innovative interdisciplinary approach at the intersection of state-of-the-art semantic technologies and security research. It will thereby bring meaning to disparate log data and make security information machine-interpretable in near (near) real-time.

https://sepses.ifs.tuwien.ac.at/

Contact

Vienna University of Economics and Business (WU) Institute for Data, Process and Knowledge Management (DPKM)

E-Mail: sekretariat@dpkm.wu.ac.at **Web**: https://www.wu.ac.at/dpkm/